AUDIO POLE

PORTABLE SOUND SYSTEM

FREEPOLE 100

USER'S MANUAL

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SAFETY INSTRUCTIONS

CAUTION
RISK OF ELECTRIC SHOCK NOT OPEN
WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN MOISTURE.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions.

POWER SUPPLY
Ensure that the insource voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user. Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

EXTERNAL CONNECTION
Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

DO NOT REMOVE ANY COVERS
Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed. Covers should be removed by qualified service personnel only. No user serviceable parts inside.

FUSE
To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

PROTECTIVE GROUND
Before turning the unit on, make sure that it is connected to Ground. This is to prevent the risk of electric shock. Never cut internal or external Ground wires. Like wise, never remove Ground wiring from the Protective Ground Terminal.

OPERATING SAFETY INSTRUCTIONS
Read these instructions. Follow all instructions. Keep these instructions. Do not discard. Heed all warnings. Only use attachments/accessories specified by the manufacturer.

POWER CORD AND PLUG
Do not tamper with the power cord or plug. These are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.

SERVICING
Refer all servicing to qualified service personnel only. Do not perform any servicing then those instructions contained within this User's Manual.

DISPOSAL

This symbol indicates that the disposal of this product is submitted to local regulations. Please contact your local dealer.

DESCRIPTION

Thank you for purchasing the Audiopole FREEPOLE 100. This all in one system is an ideal tool for indoors and outdoors PA applications without using wiring. The built-in lithium battery and the wireless microphone system offer freedom of use and an optimal sound quality for the music and the voice.

It includes a two way 100 W RMS active speaker, a multichannel wireless receiver with a handled microphone, a five channel mixer, a USB/SD audio module.

Main features

- 100 W (RMS) Class-D amplifier
- 8" woofer and 1" driver
- Switching power supply 100 ~ 240 V AC
- Battery with built in charging control unit
- 4 ~ 6 hours battery life
- USB / SD player with backlit LCD display
- 16 channel UHF system (863 – 865 MHz)
- Microphone priority
- Mic / Line inputs and Line output
- AUX input and output
- Empty slot for additional 16 channel receiver or 16 channel transmitter
- Handles and wheels

SYSTEM ELEMENTS

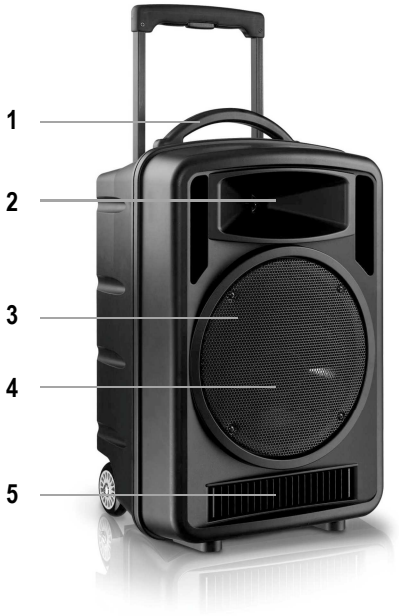


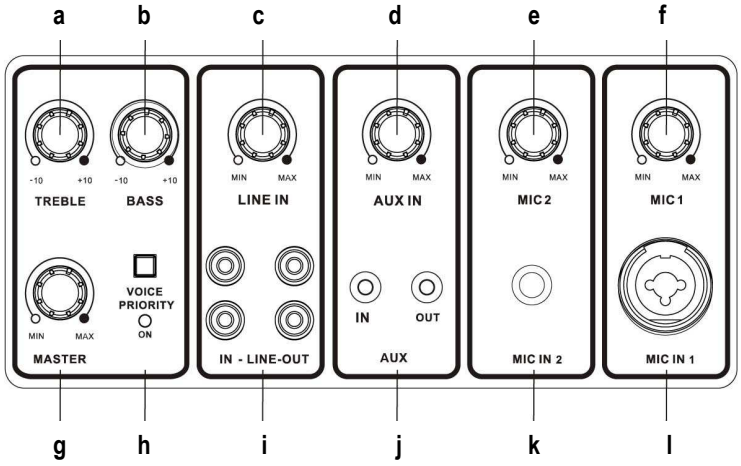
Figure 1: Front panel

1. Handle
2. Horn
3. Speaker grille
4. Woofer
5. Air vent

Figure 2: Rear panel

1. Retractable handle
2. UHF Receiver
3. Audio module
4. ON/OFF switch and charge indicator
5. Main control panel
6. Mains inlet
7. Battery cover
8. Wheels

CONTROL PANEL



- **a.** Treble control
- **b.** Bass control
- **c.** LINE IN Volume
- **d.** AUX IN Volume
- **e.** MIC 2 Volume
- **f.** MIC 1 Volume
- **g.** Master volume
- **h.** Priority switch. When active, the Led lights up.
- **i.** LINE IN: inputs for CD/MP3/DVD players, Smartphone etc. (RCA),
  LINE OUT: outputs for recoding or amplifiers (RCA).
- **j.** AUX IN : : inputs for CD/MP3/DVD players, Smartphone etc. (35 mm Jack),
  AUX : outputs for recoding or amplifiers . (35 mm Jack),
- **k.** Microphone input MIC 1 (Combo XLR-¼" Jack)

POWER SUPPLY

The FREEPOLE 100 can be powered by 100 to 240 V AC, or by two internal battery blocks.
The batteries start the charging process as soon as the device is connected to the mains. The Led indicator lights up red during the charging time and lights up green when the charge is over.

Warning

Before the first use or when the device is not used during a long period of time, it is important to charge the battery at least 8 hours.

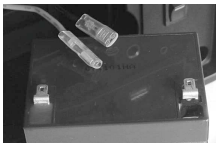
When the system works with the batteries, the charge indicator displays the following information:

- Available power exceeding 30 % of the total charge capacity: red Led lighting,
- Available power being less than 30 % of the total charge capacity: red Led blinking,
- Available power being less than 5 % of the total charge capacity: power is automatically switched off

Batteries Replacement

Remove the cover

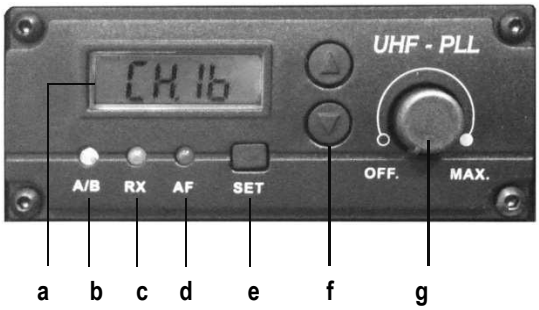
Pull the battery block out



Connect the new battery block respecting the colour code : Red (+), Black (-)

Both battery blocks need to be replaced at the same time at risk of malfunction.

HF RECEIVER



Description

- **a.** LCD displaying frequency and channel number
- **b.** Switching status of the diversity antennas A/B
- **c.** HF signal presence
- **d.** Audio signal presence
- **e.** Set / confirm channel number
- **f.** Select channel number
- **g.** ON/OFF / Volume

Functions

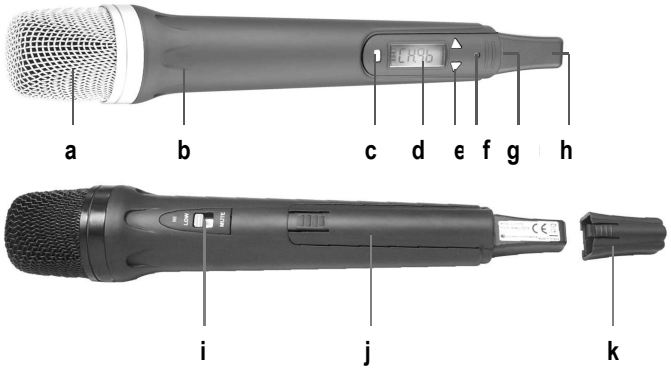
1. Turn VOLUME / POWER (g) clockwise. At the “click” the receiver switches on and the LCD lights up displaying the channel number from 1 to 16.
   To switch off, turn the button counter clockwise up to the “click”.

2. Channel selection :
   Press button (e) during 1 second, select the channel (CH1 ~ CH16) by pressing △/▽ (f), then press SET again once the channel is selected.
   In case of using two receivers, it is necessary to use two different channels.

3. To display the frequency value (MHz) corresponding to the selected channel, press △/▽ (f) continuously.

Channel number	Frequency (MHz)
01	863,1
02	864,1
03	863,6
04	864,6
05	863,3
06	864,3
07	863,8
08	864,8
09	863,2
10	864,2
11	863,7
12	864,7
13	863,4
14	864,4
15	863,9
16	864,9

HF MICROPHONE



Description

- **a.** Anti-pop grille
- **b.** Microphone « soft touch » body
- **c.** Channel set button
- **d.** LCD screen : displays channel number / battery status / frequency
- **e.** Up / Down selector
- **f.** On / Off indicator
- **g.** On / Off switch
- **h.** Battery charge terminals
- **i.** HI / LOW / MUTE : sensitivity selector
- **j.** Batteries cover
- **k.** Protect cap

Batteries installation

Remove the protect cap (k) and the cover (j) as indicated on the picture. Insert two alkaline AA 1.5 V batteries or two rechargeable 1.2 V Ni-MH batteries. Never use batteries with capacity exceeding 2300 mAh.

Put the cover and the cap back. The cap maintains the cover locked.

Function

1. Press button (g) 2 to 3 seconds to switch the microphone on. The LCD displays “ON” then the channel number.
2. Channel selection: press button (c) 3 seconds, when the indication blinks press △/▽ (e) to select a new channel. Press (c) again to confirm.
   To display the frequency value (MHz) press △/▽ (e) continuously.
3. Check that the microphone and the receiver are on the same channel.

HI: max. sensitivity
LOW : min. sensitivity
MUTE : sound mute

To mute the microphone without switching the transmission off, use the MUTE position.
HI / LOW positions correspond to two different sensitivities. It can be adjusted depending on the audio level.

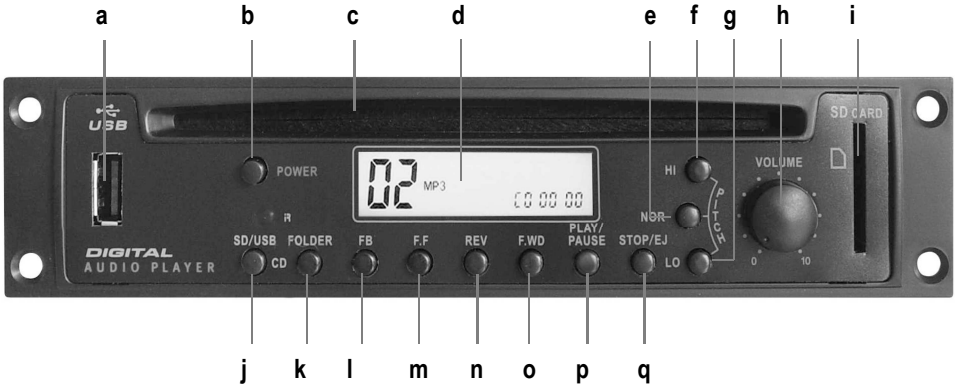
The batteries status can be easily checked thanks to the left side icon on the LCD. The transmission quality depends on the energy of the batteries so it is recommended to check it before every use.

Batteries charge

The microphone is equipped with a charging terminal, so there is no need to remove the rechargeable batteries from their compartment.
Remove the cap (k) and connect the charging wire as indicated on the picture. Check that the charger is compatible with the rechargeable battery elements.

Warning,
There is a risk of explosion in trying to recharge alkaline or other disposable batteries.
In case the device is not used during a long period of time, it is recommended to remove the batteries anyway.

AUDIO MODULE



Fonctions

a. **USB** : USB port
b. **POWER** On / Off switch
c. **CD** compartment: compatible with 12 cm CD / CD-R / CD-RW
d. **LCD** screen: display file / time / source / mode / status
e. **NOR** : back to normal speed after a pitch modification
f. **HI** : speed increase (pitch), 10 variations
g. **LO** speed decrease (pitch), 10 variations
h. **VOLUME** : volume control
i. **SD CARD** : SD card port
j. **SD / USB / CD** : source selector
k. **FOLDER** : folder selector (MP3 files)
l. **FB** : Fast backward
m. **F.F.** : Fast forward
n. **REV** : previous file
o. **F.WD** : next file
p. **PLAY / PAUSE** : play / pause
q. **STOP / EJ** : double press to stop, triple press to eject the CD.

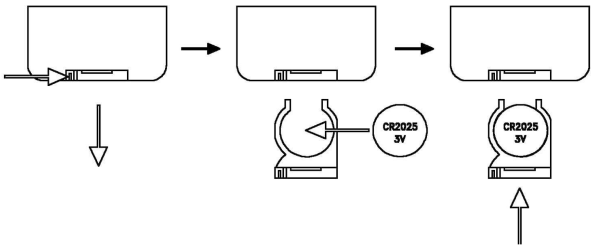
Remote Control

1. Eject / Insert CD : press ⏏ .
2. Sequence program :
   - In CD mode press **PROG** and use numeric keys 0 ~ 9.
   - Press ↵ to confirm. Repeat for each memory, then press ⏯ to play the program.
   - Double press **PROG** to cancel.
3.

Random play: press RAN, the LCD displays « SHUFFLE » and the device starts to play.
Use ⏭ and ⏮ to go to next or previous track.

4. **Repeat** :
   - In CD mode, press REP once to display « REPEAT ALL », all the CD tracks will be replayed.
   - Press REP twice to display « REPEAT 1 », only the selected track will be replayed.
     To cancel the repeat function press REP again.
   - In MP3 mode, press REP once to repeat all tracks (REPEAT ALL), twice for folder (REPEAT FOLDER) and three times to repeat only one track (REPEAT 1).
     - To cancel the repeat function press REP again.
5. **0 ~ 9** Numeric keys
6. FOLDER Folder selection (MP3)
7. ⏯ Play / Pause
8. ⏹ Stop
9. ⏭ Next
10. ⏮ Previous
11. ⏪ Fast Backward; press again to play
12. ⏩ Fast Forward ; press again to play
13. CD USB/SD Source selection CD → USB → SD; press ⏯ to confirm.
14. **A-B:** Replay a selected section of track. Press once to start the point of section, press a second time to end the selected point and start to play this section repeatedly.
15. 🔇 Mute function. Press again back to the normal mode
16. ↵ Confirm.
17. **LOW, NOR, HIGH :** Pitch adjustment.
18. Always direct the remote control towards the sensor of the audio module. The effective working distance is best at 3 meters, max. 5 meters.

Battery Installation



1. Right push the latch to pull out the battery form the compartment
2. Insert CR2025 3 Volts battery, the positive pole must face up.

TECHNICAL SPECIFICATIONS

Amplifier	
Power	100 W (RMS), 140 W (MAX) @ 4 Ω
Transducers	1 x woofer ∅ 10" 1 x tweeter ∅ 1"
THD	≤ 1%
Sensitivity	90 dB, 1 W @ 1 m
SPL max.	95 dB
Frequency response	20 Hz - 20 kHz (± 3 dB)
S/N ratio	≥ 70 dB
Wireless system	
Frequency band	863 - 865 MHz (16 channels)
Deviation	± 80 kHz
Radiated power	10 mW
Receiver sensitivity	4 µV @ 30 dB SINAD
Frequency response	70 Hz - 16 kHz (± 3 dB)
IMD rejection	55 dB
THD	≤ 0,5%
Microphone type	Dynamic cardioid Battery life: 14 h with 2 alkaline disposable batteries AA 1.5 V Battery life: 11 h with 2 rechargeable batteries Ni-MH AA 1.2 V Weight: 280 g with batteries Dimension: Φ 46 x L 264 mm
Audio player	
Interface	CD, CR-R, CD-RW, USB, SD card
Decoder	MPEG-1/2/3/4, CD-G, WMA, JPG
Controls	CD/SD/USB, FOLDER, FB, FF, REV, F.WD, PLAY, STOP, PITCH, VOL.
Speed control	Hi/Low, 10 sections @ 1 section ± 3%
System	
Controls	Master volume Low, High Volumes MIC 1, MIC 2, AUX IN, LINE IN Volumes wireless mic., audio player Priority ON/OFF
Power supply	Switching power supply 100 ~ 240 V AC
Battery	12 V - 4.5 Ah (Lead-Acid) Operating time : 4 ~ 6 hours Charging time: 6 ~ 8 hours
Dimensions	580 (H) x 360 (W) x 310 (D) mm
Weight	20 kg
Accessories	Dust cover
Optional accessories	Additional UHF Receiver module + wireless microphone (863-865 MHz) UHF Emitter module (863-865 MHz) Bluetooth module

WARRANTY

This device is warranted parts and labor against any manufacturing defects for a period of two years from the date of purchase by the first user.

Conditions

1. The unit has been installed and implemented by observing the safety instructions in this operating manual.
2. The device was not diverted from its destination, either voluntary or accidental, and suffered no deterioration or modification other than those described here or explicitly authorized by AUDIOPOLE.
3. All modifications or repairs have been carried out by an authorized service station.
4. The defective product must be returned with the dealer who made the sale or to an authorized service station with proof of purchase.
5. The device was properly packaged to avoid damage in transport.

AUDIOPOLE

22, rue Édouard Buffard, Z.A.C. de la Charbonnière, Montévrain - 77771 Marne-la-Vallée Cedex 4 - France
Tél : + 33 (0)1 60 54 32 00 - Fax : + 33 (0) 1 60 54 31 90 - www.audiopole-pa.com - www.audiopole.fr